Application No.	Applicant(s)	
10/809.402	ANGHEL ET AL.	
Examiner	Art Unit	
Jonathan Moffat	2863	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>9/15/2006</u> .		
2. The allowed claim(s) is/are <u>1-26</u> .		
3.		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 7. Examiner's Amendi 8. Examiner's Statemen	(PTO-413), te	
	Examiner  Jonathan Moffat  ars on the cover sheet with the coording appropriate communication GHTS. This application is subject to and MPEP 1308.  der 35 U.S.C. § 119(a)-(d) or (f).  been received. been received in Application Nocuments have been received in this communication to file a reply ENT of this application.  tted. Note the attached EXAMINER is reason(s) why the oath or declarate the submitted.  on's Patent Drawing Review (PTO-communication of the drawing header according to 37 CFR 1.121(s).  Sit of BIOLOGICAL MATERIAL is for BIOLOGICAL MATERIAL is for BIOLOGICAL MATERIAL is to BIOLOGICAL MATERIA	

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## **DETAILED ACTION**

## Response to Amendment

Applicant's amendments to the claims, filed, 9/7/2006, are accepted as compliant and appreciated by the examiner. In response to the amended claims, all previous grounds for rejection are withdrawn.

## Allowable Subject Matter

Claims 1-26 are allowed. As discussed in applicant's arguments, filed 7/28/2006, and the telephonic interview with applicant's representative on 7/14/2006, the claims have been amended to sufficiently distinguish them from the prior art of record. Specifically, though prior art has been shown to teach utilizing two methods for sensor less rotor position determination, and has been found to teach an AC motor with a sensor less position monitoring system based upon the frequency component of the excitation supplied to the field winding, prior art has not been found to disclose or suggest a combination of dual sensor less position methods with an excitation frequency monitoring with a synchronous motor that has separate excitation for the field and stator windings. Submitted herein as closest pertinent prior art (in addition to that presented in previous rejections) are Seki (US pat pub 2002018586) which discloses a multi-phase AC motor that uses back-EMF to determine rotor position, Wogari (US pat pub 20040232862) which discloses use of the AC excitation to determine rotor position, and Schulz (US pat 6924617) which discloses dual methods for determining rotor position based upon speed.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Moffat whose telephone number is (571) 272-2255. The examiner can normally be reached on Mon-Fri, from 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

9/24/06

JM

John Barlow
Supervisory Fatent Examiner
Technology Center 2200